

## MATERIAL SAFETY DATA SHEET

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**Antibody**  
**#E8038S**

### SECTION 1 –CHEMICAL INFORMATION

**Product Name:** Anti-MBP Monoclonal Antibody (HRP conjugated)

### SECTION 2 –CHEMICAL INFORMATION

1. Glycerol	50%	Cas.	#56-81-5
2. Sodium Chloride	< 1%	Cas.	#7647-14-5
3. HEPES	< 1%	Cas.	#75277-39-3

### SECTION 3–COMPOSITION/ INFORMATION ON INGREDIENT

**CHEMICAL NAME:** GLYCEROL

CAS No.: 56-81-5

MF: C3H8O3

EC No.: 200-289-5

**SYNONYMS:** CITIFLOUR AF 2 \* GLYCERIN \* GLYCERIN, ANHYDROUS \* GLYCERINE \* GLYCERIN MIST (ACGIH, OSHA) \* GLYCERIN, SYNTHETIC \* GLYCERITOL GLYCYL ALCOHOL \* GLYZERIN, WASSERFREI (GERMAN) \* GROCOLENE \* OSMOGLYN \* 1,2,3-PROPANETRIOL \* STAR \* SYNTHETIC GLYCERIN \* TECHNICAL GLYCERINE \* TRIHYDROXYPROPANE \* 1,2,3-TRIHYDROXYPROPANE.

### SECTION 4–HAZARDOUS IDENTIFICATION

#### LABEL PRECAUTIONARY STATEMENTS:

#### CAUTION

Avoid contact by inhalation, skin and ingestion.

#### Target Organ (S)

Kidney  
Hygroscopic

### SECTION 5 –FIRST AID MEASURES

**ORAL EXPOSURE:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**INHALATION EXPOSURE:** If inhaled, remove to fresh air. If breathing is difficult, call a physician.

**DERMAL EXPOSURE:** In case of contact, immediately wash skin with soap and copious amounts of water.  
Remove clothing and call a physician.

**EYE EXPOSURE:** In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.  
Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### SECTION 6–FIRE FIGHTING MEASURES

#### **Extinguishing Media:**

Water Spray  
Carbon Dioxide, Dry Chemical powder or appropriate foam

**Unusual Fire and Explosions Hazard (s):**  
Emits toxic toxic fumes under fire conditions.

**Prevent contact with skin and eyes.**

**Special Firefighting Procedures:** Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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## SECTION 7 – ACCIDENTAL RELEASE MEASURES

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### PROCEDURE(S) OF PERSONAL PRECAUTION(S):

Wear self-contained breathing apparatus, chemical safety goggles, rubber boots, and chemical resistant gloves.

Wear disposable coveralls and discard them after use.

### METHODS FOR CLEANING UP:

Absorb on sand or vermiculite and place in a closed container for disposal.

Ventilate area and wash spill site after material pickup is complete.

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## SECTION 8 – HANDLING AND STORAGE

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Refer to Section 8

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## SECTION 9–EXPOSURE CONTROLS /PPE

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**Engineering Controls:** Safety shower and eye bath. Mechanical exhaust required.

### Personal Protective Equipment:

#### Respiratory

NIOSH/MSHA-approved respirator.

#### Hand:

Compatible chemical-resistant gloves.

#### Eye:

Compatible safety goggles.

### General Hygiene Measures:

Wash thoroughly after handling.

Wash contaminated clothing before use.

### AVOID INHALATION

KEEP TIGHTLY CLOSED

STORE IN A COOL DRY PLACE

FREEZE.

STORE AT -20°C

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## SECTION 10– PHYSICAL AND CHEMICAL PROPERTIES

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### Physical Properties:

**Melting Point:** 20° C

**Boiling Point:** 182° C

**Flash Point:** > 392 F, > 200° C

### Explosion Limits in Air:

**Lower:** 0.9%

**Specific Gravity:** 1.262

**Solubility:** Water -Z26130

**Vapor Pressure:** < 1 MMHG @ 20°C

**Vapor Density:** 3.1 G/L

**PH:** 5.5–8.0

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## SECTION 11 – STABILITY AND REACTIVITY

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**Stability:** Stable

### Materials to Avoid:

Strong oxidizing agents, strong bases.

### Hazardous Decomposition Products:

Carbon Monoxide, Carbon Dioxide

**Hazardous Decomposition Products:** Will not occur.

### PROTECT FROM HEAT

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## SECTION 12–TOXICOLOGICAL INFORMATION

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### Route of Exposure:

#### Skin Contact

May cause skin irritation

#### Eye Contact:

May cause eye irritation

#### Multiple Routes

May be harmful by inhalation, ingestion, or skin absorption

Materials may be irritating to mucous membranes and upper respiratory tract.

**RTECS #:**MA8050000

GLYCEROL

**Chronic Effects:** Target Organs, Kidney

To the best of our knowledge, the properties have not yet been thoroughly investigated.

### IRRITATION DATA:

**SKN-RBT 500** MG/24H MLD

**EYE-RBT 126** MG MLD

**EYE-RBT 500** MG/24H MLD

85JCAE -, 207, 1986

BIOFX\* 9-4/970

85JCAE -, 207, 1986

### TOXICITY DATA:

**ORL-RAT LD50:** 12600 MG/KG

**IHL-RAT LC50:** > 570 MG/M3/1H

**IPR-RAT LD50:** 4420 MG/KG

**SCU-RAT LD50:** 100 MG/KG

**IVN-RAT LD50:** 5566 MG/KG

**ORL-MUS LD50:** 4090 MG/KG

**IPR-MUS LD50:** 8700 MG/KG

FEPR47 4, 142, 1945

BIOFX\* 9-4/970

RCOCB8 56, 125, 1987

NIIRDN 6, 215, 1982

ARZNAD 26, 1581, 1976

FRZKAP (6), 56, 1977

ARZNAD 28, 1579, 1978

**SCU-MUS** LD50: 91 MG/KG  
**IVN-MUS** LD50: 4250 MG/KG  
**ORL-RBT** LD50: 27 GM/KG  
**SKN-RBT** LD50: >10 GM/KG  
**IVN-RBT** LD50: 53 GM/KG  
**ORL-GPG** LD50: 7750 MG/KG

NIIRDN 6, 215, 1982  
 JAPMA8 39, 583, 1950  
 DMDJAP 31, 276, 1959  
 BIOFX\* 9-4/970  
 NIIRDN 6, 215, 1982  
 JIHTAB 23, 259, 1941

#### TARGET ORGAN DATA:

Behavioral (headache)  
 Gastrointestinal (nausea or vomiting)  
 Kidney, ureter, bladder (changes in tubules)  
 Kidney, ureter, bladder (changes in urine composition)  
 Paternal effects (spermatogenesis)

Paternal effects (testes, epididymis, sperm duct)  
 Effects on fertility (male fertility index)  
 Effects on fertility (post-implantation mortality)  
 Only selected registry of toxic effects of chemical substance  
 (RTECS) data is presented here. See actual entry in RTECS

## SECTION 13—ECOLOGICAL INFORMATION

Data not yet available

## SECTION 14—DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material.  
 Observe all federal state and local environmental regulations.  
 Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## SECTION 15— TRANSPORT INFORMATION

Contact New England Biolabs, Inc. Company for Transportation Information.

## SECTION 16— REGULATORY INFORMATION

#### Reviews, standards and Regulations:

OEL=MAK

ACGIH TLV-TWA 10 MG/M3

DTLVS\* TLV/BEI, 1999

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTER FEREAC 54, 7740, 1989.

MSHA STANDARD: NUISANCE PARTICULATES (MIST)

DTLWS\* 3, 20, 1973

OSHA PEL (GEN INDU): 8H TWA 15 MG/M3, TOTAL DUST

CFRGBR 29, 1910.1000, 1994

OSHA PEL (GEN INDU): 8H TWA 5 MG/M3, RESPIRABLE FRACTION

CFRGBR 29, 1910.1000, 1994

OSHA PEL (CONSTRUC): 8H TWA 15 MG/M3, TOTAL DUST

CFRGBR 29, 1926.55, 1994

OSHA PEL (CONSTRUC): 8H TWA 5 MG/M3, RESPIRABLE FRACTION

CFRGBR 29, 1926.55, 1994

OSHA PEL (SHIPYARD): 8H TWA 15 MG/M3, TOTAL DUST

CFRGBR 29, 1915.1000, 1993

OSHA PEL (SHIPYARD): 8H TWA 5 MG/M3, RESPIRABLE FRACTION

CFRGBR 29, 1915.1000, 1993

OEL -Australia: TWA 10 MG/M3, JAN 1993

OEL -Belgium: TWA 10 MG/M3, JAN 1993

OEL -Finland: TWA 20 MG/M3, JAN 1999

OEL -France: VME 10 MG/M3, JAN 1999

OEL -The Netherlands: MAC-TGG 10 MG/M3, Jan 1999

OEL -United Kindgom: TWA 10 MG/M3, MIST Sept 2000

OEL in Argentina, Bulgaria, Colombia, Jordan, Korea Check ACC

NOHS 1974: HZD 35085; NIS 358; TNF 86657; NOS 198;

TNE 1085329

NOHS 1983: HZD 35085; NIS 310; TNF 67054; NOS 215;

TNE 2135546; TFE 1346631

EPA TSCA SECTION 8 (B) Chemical Inventory

EPA TSCA SECTION 8 (D) Unpublished Health/Safety Studies

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE,  
Jan. 2001

## SECTION 17— OTHER INFORMATION

The above information is believed to be correct but  
 does not purport to be all inclusive and shall be  
 used only as a guide.

New England Biolabs shall not be held liable  
 for any damage resulting from handling or  
 from contact with the above product.